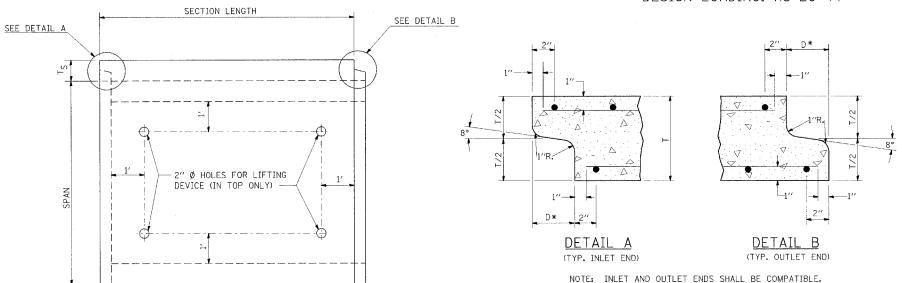
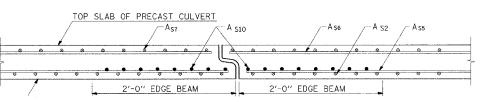
DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH LESS THAN 2 FEET OF COVER AASHTO DESIGNATION M273)
DESIGN LOADING: HS-20-44



PLAN

LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.

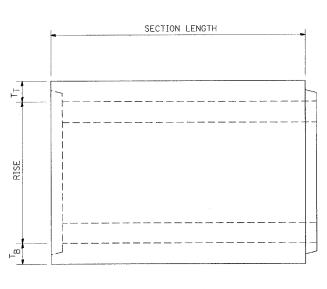


MANUFACTURER'S STANDARDS.

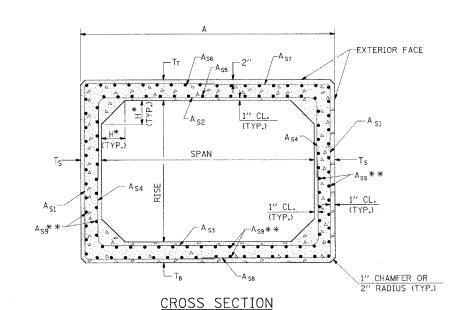
* THE D DIMENSION SHALL CONFORM TO THE

DETAIL OF EDGE BEAM

NOTE: THE AS10 REINFORCEMENT SHALL BE THE SAME LENGTH AS THE AS2.







*THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, Ts.

**THE AREA OF A_{S9} REINFORCEMENT SHALL BE BE A MINUMUM OF 0.12 SQ, IN./FT.

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

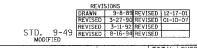
THE TERMS AS1, AS2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185 OR A 497. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BILLETSTEEL BARS CONFORMING TO AASHTO M-31, M-42, GRADE 60.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503,11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DIMENSIONS & EDGE BEAM REINFORCEMENT

			DIMENSIONS (INCHES)			EDGE BEA REINF. AREA (IN.2/FT	
SPAN	Χ	RISE	T _T	Тв	Ts	A S10	
3′	Χ	2′	7	6	4	0.42	
3′	Χ	3′	7	6	4	0.42	
4'	X	2'	71/2	6	5	0.59	
4'	Χ	3′	71/2	6	5	0.59	
4′	Χ	4′	71/2	6	5	0.59	
5′	X	3′	8	7	6	0.59	
5′	Χ	4'	8	7	6	0.59	
5′	Χ	5′	8	7	6	0.59	
6′	X	3′	8	7	7	0.73	
6′	Χ	4′	8	7	7	0.73	
6′	Χ	5′	8	7	7	0.73	
6′	Χ	6′	8	7	7	0.73	
7′	X	4′	8	8	8	0,85	
7'	Χ	5′	8	8	8	0.85	
7′	Х	6′	8	8	8	0.85	
7′	Χ	7′	8	8	8	0.85	
8′	Y	4'	8	8	8	1.00	
8′	X	5′	8	8	8	1.00	
8′	X	6′	8	8	8	1.00	
8′	Χ	7′	8	8	8	1,00	
8′	Х	8′	8	8	8	1.00	



VARIOUS

CONTRACT NO. 78038

FILE NAME =	USER NAME = thomashf	DESIGNED -	REVISED -
c:\projects\d901907\d901907det.m32		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A.P. SEC		TIO	
DETAIL: PRECAST CONCRETE BOX CULVERT SECTION	881	D9 SAFET	'Y F	
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	AD DIST. NO.	ILL	

└CLASS SI CONCRETE

MULTIPLE UNIT PLACEMENT